

Appl. No. 10/034,220
Amdt. dated February 11, 2005
Reply to Office action of December 9, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method of calling basic input/output system (BIOS) routines, the method comprising:
 - identifying BIOS routines with a unique identification number;
 - correlating the unique identification number to at least a services number in a data table; and
 - determining, by a BIOS calling program, a services number of the BIOS routine based on the unique identification number from the data table; and then
 - ~~calling, by the BIOS calling program, the BIOS routine based on the service number.~~
2. (Original) The method of calling BIOS routines as defined in claim 1 wherein determining a services number of the BIOS routine based on the unique identification number from the data table further comprises accessing the data table by the BIOS calling program based on the unique identification number to determine a services number associated with the unique identification number.
3. (Original) The method of calling BIOS routines as defined in claim 1 wherein identifying BIOS routines with a unique identification number further comprises identifying BIOS routines with a Globally Unique Identifier (GUID) 128 bits in length.
4. (Original) The method of calling BIOS routines as defined in claim 3 wherein determining a services number of the BIOS routine based on the unique identification number from the data table further comprises accessing the data

Appl. No. 10/034,220
Amdt. dated February 11, 2005
Reply to Office action of December 9, 2004

table by the BIOS calling program based on the GUID number to determine a services number associated with the GUID.

5. (Currently amended) A computer system comprising:
 - a central processing unit (CPU);
 - a main memory array coupled to the CPU;
 - ~~a first bridge logic device coupling the CPU and the main memory array;~~
 - ~~a graphics controller coupled to the first bridge logic device;~~
 - ~~a video display coupled to the graphics controller;~~
 - ~~a second bridge logic device coupled to the first bridge logic device by way of a primary expansion bus;~~
 - a basic input/output system (BIOS) read only memory (ROM) coupled to ~~the second bridge logic device by way of a secondary expansion bus~~ the CPU; and
 - a data table stored within the BIOS ROM, and wherein data table correlates unique identification numbers of BIOS routines to BIOS call services numbers for the BIOS routines.
6. (Currently amended) The computer system as defined in claim 5 wherein the unique identification numbers of the BIOS routines further comprise Globally Unique Identification (GUID) numbers approximately about 128 bits digits in length.
7. (Original) The computer system as defined in claim 5 further comprising:
 - a driver program executed by the CPU, the driver program adapted to execute BIOS routines; and
 - wherein the driver program accesses the data table to determine a BIOS call service number for a BIOS routine based on the unique identification number.

Appl. No. 10/034,220
Amdt. dated February 11, 2005
Reply to Office action of December 9, 2004

8. (Currently amended) The computer system as defined in claim 7 wherein the unique identification numbers of the BIOS routines further comprises Globally Unique Identification (GUID) numbers ~~approximately about 128 bits-digits~~ in length.

9. (Original) A method of determining availability of basic input/output system (BIOS) routines in a computer system, the method comprising:

identifying a first BIOS routine with a first globally unique identification number;
maintaining within the computer system a data table that lists globally unique identification numbers for available BIOS routines; and
determining the availability of the first BIOS routine by searching the data table based on the first globally unique identification number, presence of the first globally unique identification number indicating availability of the first BIOS routine in the computer system.

10. (Currently amended) The method as defined in claim 9 wherein identifying the first BIOS routine with the first globally unique identification number further comprises identifying the first BIOS routine with the first globally unique identification number being ~~approximately about 128 bits-digits~~ in length.

11. (Original) The method as defined in claim 9 wherein maintaining within the computer system a data table that lists globally unique identification numbers for available BIOS routines further comprises maintaining the data table on a non-volatile device.

12. (Original) The method as defined in claim 11 wherein maintaining the data table on a non-volatile device further comprises maintaining the data table on a BIOS read only memory (ROM).

Appl. No. 10/034,220
Amdt. dated February 11, 2005
Reply to Office action of December 9, 2004

13. (Original) The method as defined in claim 9 further comprising determining a BIOS call services number of the BIOS routine based on the globally unique identification number.

14. (Original) The method as defined in claim 13 wherein determining a BIOS call services number of the first BIOS routine based on the globally unique identification number further comprises:

correlating the globally unique identification number of the first BIOS routine to the BIOS call services number of the first BIOS routine in the data table; and

searching the data table based on the globally unique identification number of the first BIOS routine to determine the BIOS call service number of the first BIOS routine.

15. (Currently amended) The method as defined in claim 14 wherein identifying the first BIOS routine with a globally unique identification number further comprises identifying the first BIOS routine with the globally unique identification number being approximately about 128 bits-digits in length.

16. (Original) The method as defined in claim 15 wherein maintaining within the computer system a data table that lists globally unique identification numbers for available BIOS routines further comprises maintaining the data table on a non-volatile device.

17. (Original) The method as defined in claim 16 wherein maintaining the data table on a non-volatile device further comprises maintaining the data table on a BIOS read only memory (ROM).

Appl. No. 10/034,220
Amdt. dated February 11, 2005
Reply to Office action of December 9, 2004

18. (Original) A basic input/output system (BIOS) read only memory (ROM) for a computer system comprising:

- a set of BIOS routines stored on the BIOS ROM, each BIOS routine invoked by a service number; and
- a correlation table stored on the BIOS ROM, the correlation table correlates a Globally Unique Identifier (GUID) to a service number for at least one BIOS routine.

19. (Currently amended) The BIOS ROM as defined in claim 18 wherein the GUID is a number generated based in part on a substantially globally unique random number of sufficient length to be approximately globally unique.

20. (Currently amended) The BIOS ROM as defined in claim 19 wherein the GUID is approximately about 128 bits digits in length.

21. (Currently amended) A method of calling basic input/output system (BIOS) routines, the method comprising:

- identifying a plurality of BIOS routines with unique identification numbers;
- correlating the unique identification numbers to BIOS routine service numbers in a data table; and
- determining, by a driver program, from the data table a service number of a first BIOS routine based on a first unique identification number for the first BIOS routine; and then
- calling the first BIOS routine based on the service number.

22. (Original) The method of calling BIOS routines as defined in claim 21 wherein correlating the unique identification numbers to BIOS routine service numbers in a data table further comprises supplying the data table listing the unique identification numbers, and for each identification number listing a BIOS routine service number.

Appl. No. 10/034,220
Amdt. dated February 11, 2005
Reply to Office action of December 9, 2004

23. (Original) The method of calling BIOS routines as defined in claim 21 wherein determining, by a driver program, from the data table a service number of a first BIOS routine based on the first unique identification number further comprises accessing the data table based on the first unique identification number to determine a service number associated with the first unique identification number.

24. (Currently amended) The method of calling BIOS routines as defined in claim 21 wherein identifying a plurality of BIOS routines with unique identification numbers further comprises identifying the plurality of BIOS routines each with a Globally Unique Identifier (GUID) ~~approximately about~~ 128 bits-digits in length.

25. (Original) The method of calling BIOS routines as defined in claim 24 wherein correlating the unique identification numbers to BIOS routine service numbers in a data table further comprises supplying the data table listing the GUID and service number for the plurality of BIOS routines.

26. (Original) The method of calling BIOS routines as defined in claim 25 wherein determining, by a driver program, from the data table a service number of a first BIOS routine based on the unique identification number further comprises accessing the data table based on a GUID of the first BIOS routine to determine a service number associated with the GUID of the first BIOS routine.

27.-30. (Cancelled).

31. (New) A computer system comprising:
a means for executing software programs;
a means for storing data and programs coupled to the means for executing;
a means for storing basic input/output system (BIOS) routines coupled to the means for executing; and

Appl. No. 10/034,220
Amdt. dated February 11, 2005
Reply to Office action of December 9, 2004

a means for storing unique identification numbers of BIOS routines correlated to BIOS call service numbers for the BIOS routines, the means for storing unique identification numbers associated with the means for storing BIOS routines.

32. (New) The computer system as defined in claim 31 wherein the unique identification numbers of the BIOS routines further comprise Globally Unique Identification (GUID) numbers about 128 digits in length.

33. (New) The computer system as defined in claim 31 further comprising:
a means for calling BIOS routines, the means for calling executed by the means for executing; and
wherein the means for calling further accesses the means for storing unique identification numbers to determine a BIOS call service numbers for BIOS routines based on the unique identification numbers.

34. (New) The computer system as defined in claim 29 wherein the unique identification numbers of the BIOS routines further comprises Globally Unique Identification (GUID) numbers about 128 digits in length.